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ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE FIRST NAMED INVENTOR APPLICATION NO. 6485 David D. Neranjan 60246-228 07/18/2003 10/623,938 EXAMINER 26096 04/16/2004 NORMAN, MARC E CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD ART UNIT PAPER NUMBER **SUITE 350** 3744 BIRMINGHAM, MI 48009

DATE MAILED: 04/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		Application No. 10/623,938	NERANJAN, DAVID D
	Office Action Summary	Examiner	Art Unit
		Marc E. Norman	3744
The MAILING DATE of this communication appears on the cover sheet with the correspondence address			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1)	Responsive to communication(s) filed on 18 J	uly 2003.	
•	•	s action is non-final.	
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims			
4)🖂	Claim(s) 1-20 is/are pending in the application	· 1.	
	4a) Of the above claim(s) is/are withdrawn from consideration.		
5)⊠	5)⊠ Claim(s) <u>20</u> is/are allowed.		
•	6)⊠ Claim(s) <u>1,2,8,12,13 and 15</u> is/are rejected.		
7) Claim(s) 3-7,9-11,14 and 16-19 is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) ☐ The drawing(s) filed on 31 October 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:			
1. Certified copies of the priority documents have been received.			
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 			
application from the International Bureau (PCT Rule 17.2(a)).			
* 0	See the attached detailed Office action for a lis		ed.
Attachment(s)			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date	6) Other:	atom appropriate (1.1.0.10m)
I.S. Patent and Trademark Office			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Kawai et al.

As per claim 1, Kawai et al. discloses an air temperature control system comprising an air temperature control unit (sensor unit 500), cover (Figure 16), optical receivers (510 and 520), and light guide 550 for reflecting the light signal to the receivers.

As per claim 2, Kawai et al. discloses light guide 550 comprising a reflecting surface angled to direct the light signal to the optical receiver (Figure 16).

Claims 12, 13, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Hire.

As per claim 12, Hire discloses a temperature control unit 10, cover (cap 30), and a switch comprising arm 32 as part of the cover (Figure 2), the switch 32 being flexible between actuated and unactuated positions (by deflecting metal contact 23).

As per claim 13, Hire discloses cap 30 comprising front and back surfaces, and arm 32 being recessed from the front surface (Figures 1 and 2).

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As per claim 15, Hire discloses the switch activating an air temperature set point (switching in response preset temperature changes – column 2, lines 31-32).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kawai et al.

As per claim 8, Kawai et al. does not specifically teach first and second set point temperatures. However, the concept of multiple set point temperatures is common and well-known in the art of temperature control (for example having different on and off temperatures for the system). It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply a multiple set point control to the system of Kawai et al. for the purpose of increasing personal comfort by independently controlling on and off temperatures for the system in conjunction with the optically sensed temperatures.

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Allowable Subject Matter

Claims 3-7, 9-11, 14, and 16-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 20 is allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc E. Norman whose telephone number is 703-305-2711. The examiner can normally be reached on Mon.-Fri., 8:00-5:30, with first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on 703-308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MN

MARC NORMAN PRIMARY EXAMINER